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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/524,748	08/18/2005	Jorn Stolting	CS8472/LeA 36298	6846
34469 BAYER CROI	7590 07/18/200 PSCIENCE LP	7 .	EXAMINER	
Patent Departn	nent		KATAKAM, SUDHAKAR	
2 T .W. ALEXANDER DRIVE RESEARCH TRIANGLE PARK, NC 27709		27709	ART UNIT	PAPER NUMBER
			1621	
			MAIL DATE	DELIVERY MODE
		,	. 07/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/524,748	STOLTING ET AL.		
Office Action Summary	Examiner	Art Unit		
	Sudhakar Katakam	1621		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be tim  vill apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONED	I.  lely filed  the mailing date of this communication.  C (35 U.S.C. § 133).		
Status				
1)⊠ Responsive to communication(s) filed on <u>30 Ag</u> 2a)⊠ This action is <b>FINAL</b> . 2b)□ This     3)□ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4)	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the conference of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te		
<ol> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ol>	5) Notice of Informal Page 6) Other:	atent Application		

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#### **DETAILED ACTION**

### Status of the Application

1. Applicant's arguments, see page 4-6 of Remarks, filed on 30<sup>th</sup> April 2007, with respect to the rejection(s) of claim(s) 6-14 under 103(a) have been fully considered and are persuasive. Therefore, in view of the amendment to the claims, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the different interpretation of the previously applied reference. The claims 6-14 are remain rejected.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 6-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nagata et al (JP 56103131 A) in view of Hauser et al (US 3,810,940).

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The instant claims are drawn to a process for preparing phthaloyl chloride of formula (I) from phthalic acid anhydride by reacting the same with phosgene in presence of an N,N-dialkylformamide at temperature between 20°C and 150°C, where the phosgene and N,N-dialkylformamide are independently metered in continuously or semi-continuously and wherein from about 1.2 to about 2.5 mol of phosgene per mol of the phthalic anhydride are metered in at a rate of more than 0.2 mol/hr per mol of the phthalic anhydride.

Nagata et al teach a process for preparing phthaloyl chloride by reacting phthalic anhydride with phosgene in presence of dimethylformamide at 50-120°C, where phosgene is fed at such a rate as not to detect the unreacted phosgene almost to the end point of the reaction [see abstract]. The yield of the compound is 99% [see lower right corner of page 2].

The difference between the instant invention and **Nagata et al** is that in the instant application the phosgene and dimethylformamide are independently metered in continuously or semi-continuously and wherein from about 1.2 to about 2.5 mol of phosgene per mol of the phthalic anhydride are metered in at a rate of more than 0.2 mol/hr per mol of the phthalic anhydride, whereas in **Nagata et al** is silent on the feeding rates.

However, **Hauser et al** teach the reaction of pthalic anhydride (1.51 moles) and phosgene (1.1 molar equivalents relative to anhydride) in presence of dimethylformamide (0.02 mol) [see col. 3, lines 54 to col. 4. lines 1-13].

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In view of explicit teachings of the references, the examiner asserts that it would have been obvious to a person of ordinary skill in the art, at the time of present invention was made, to make phthaloyl chloride by combing the teachings of **Nagata et al** and **Hauser et al** with a reasonable expectation of success.

Modifying such methodology is prima facie obvious because an ordinary artisan would be motivated to use known methods to optimize the process to explore economical advantages over the other, since it is within the scope to optimize the conditions through routine experimentation. Merely modifying the process conditions such as temperature and concentration is not a patentable modification absent a showing of criticality. In re Aller, 220 F.2d 454, 105 U.S.P.Q. 233 (C.C.P.A. 1955).

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action:

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### Correspondence

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sudhakar Katakam whose telephone number is 571-272-9929. The examiner can normally be reached on M-F 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 571-272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S. Katakam

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